008027 "230E260

FIG. 1

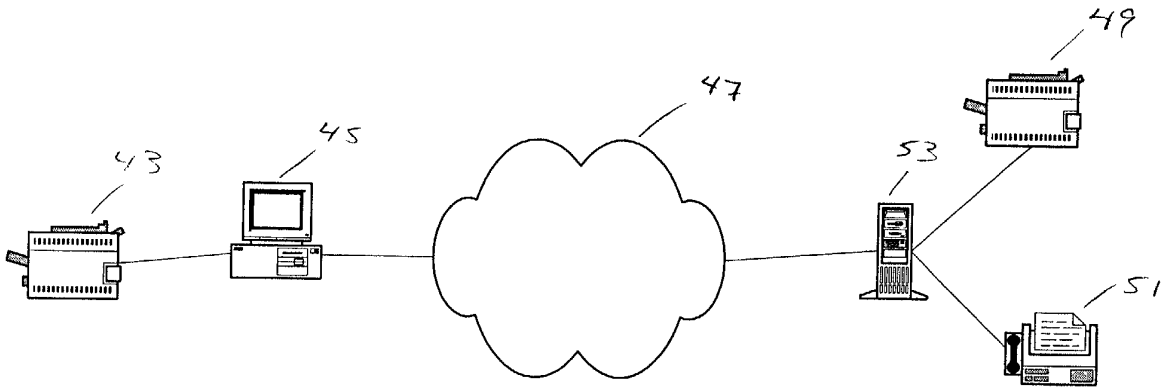


FIG. 2

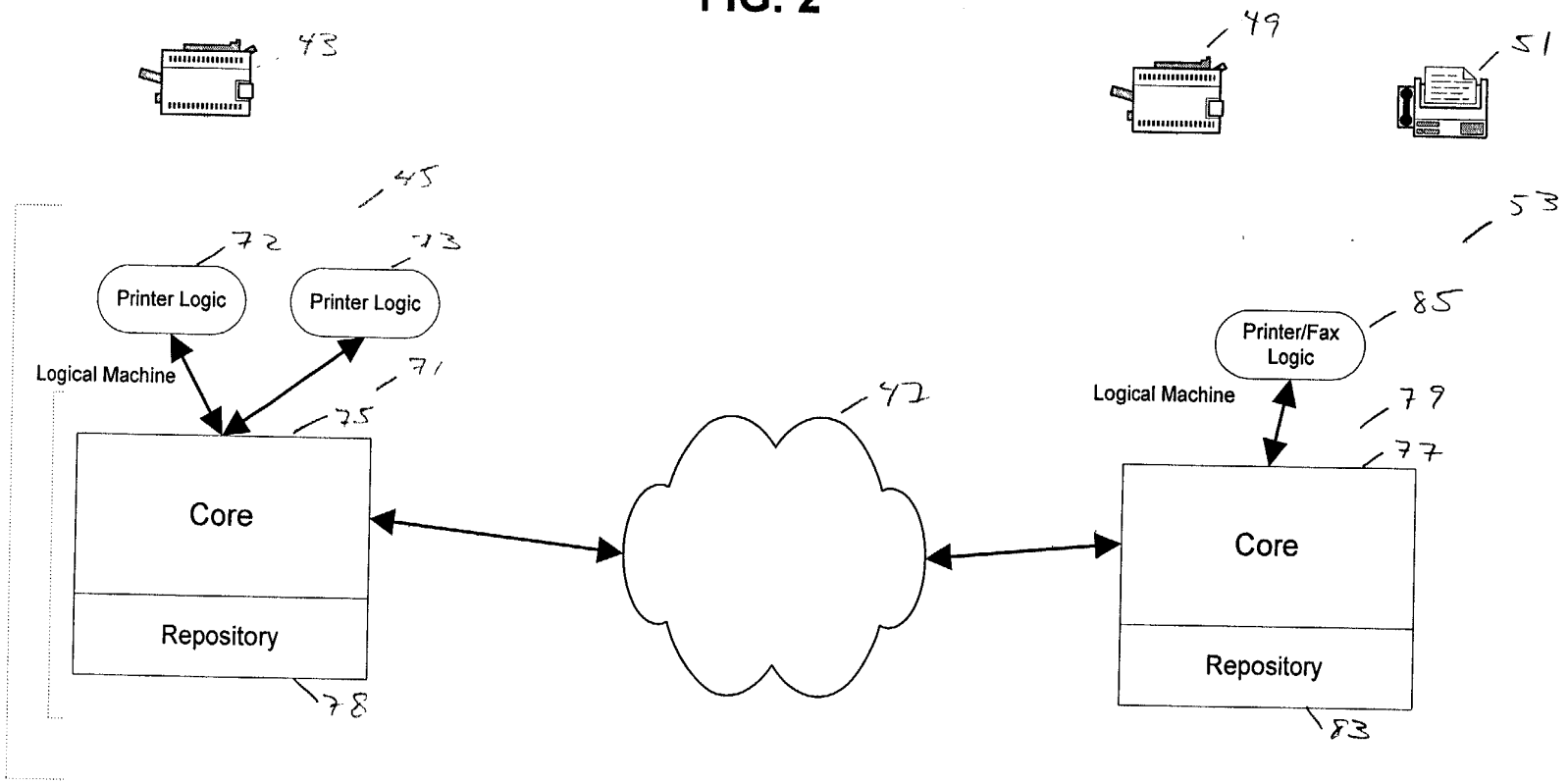

43
49
51
45
53
72
73
Printer Logic
Printer Logic
Logical Machine
71
75
Core
Repository
78
47
85
Printer/Fax Logic
Logical Machine
79
77
Core
Repository
83

FIG. 3A

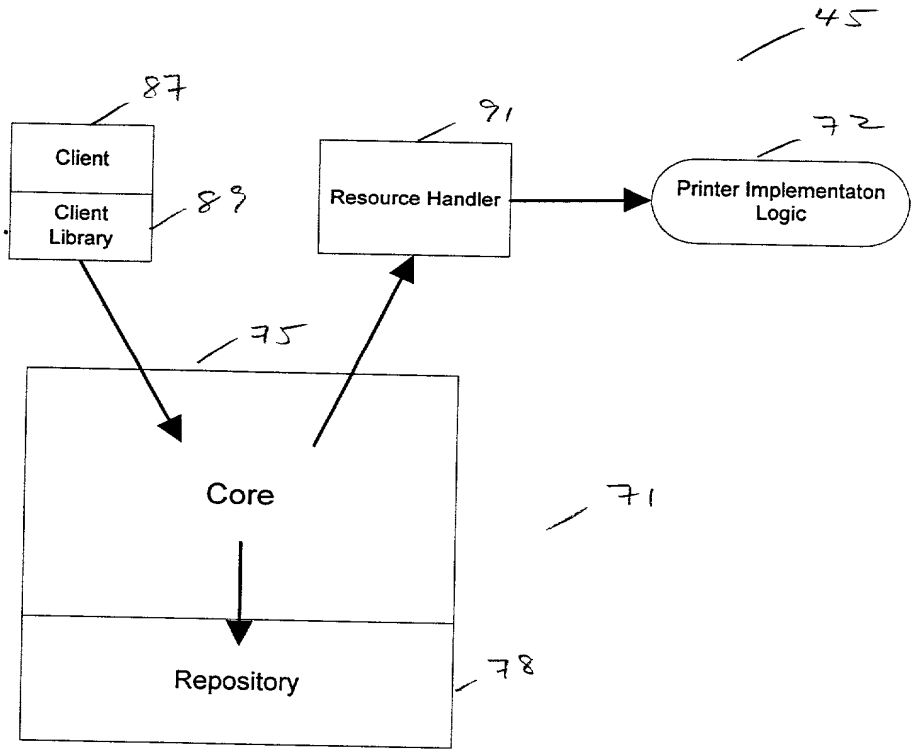

45
87
Client
Client Library
89
91
Resource Handler
72
Printer Implementaton Logic
75
Core
71
Repository
78

FIG. 3B

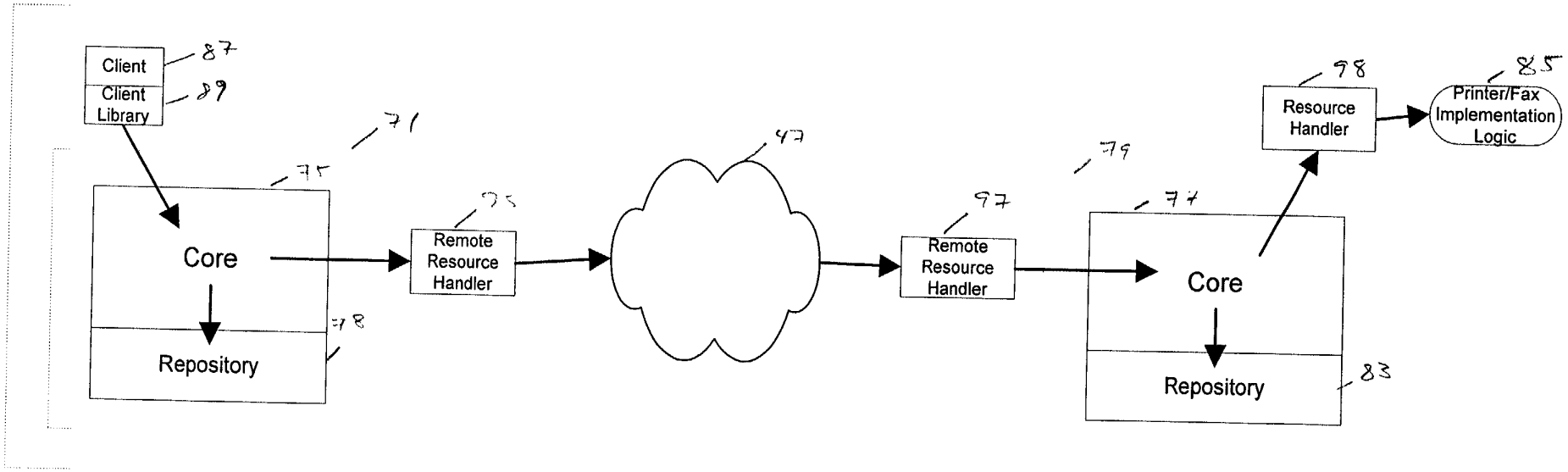

Client
Client Library
Core
Repository
Remote Resource Handler
Remote Resource Handler
Core
Repository
Resource Handler
Printer/Fax Implementation Logic

FIG. 4

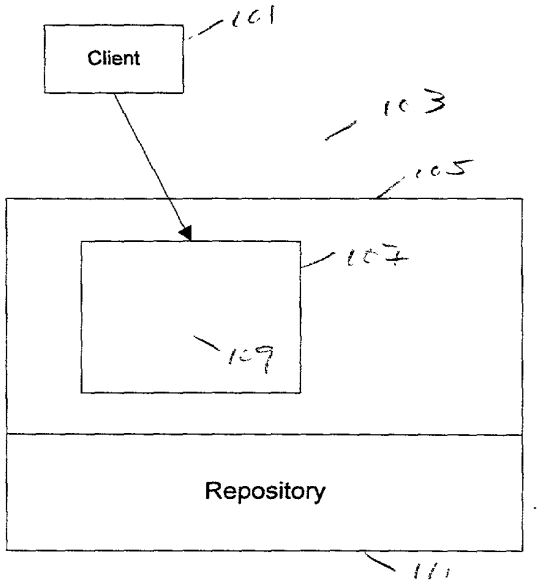

Client
101
103
105
107
109
Repository
111

FIG. 5

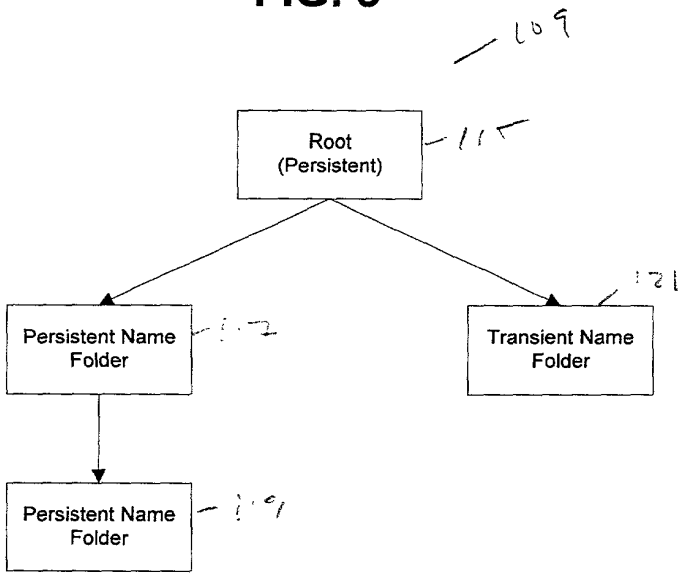

109
Root
(Persistent)
115
Persistent Name
Folder
117
Transient Name
Folder
121
Persistent Name
Folder
119

FIG. 6

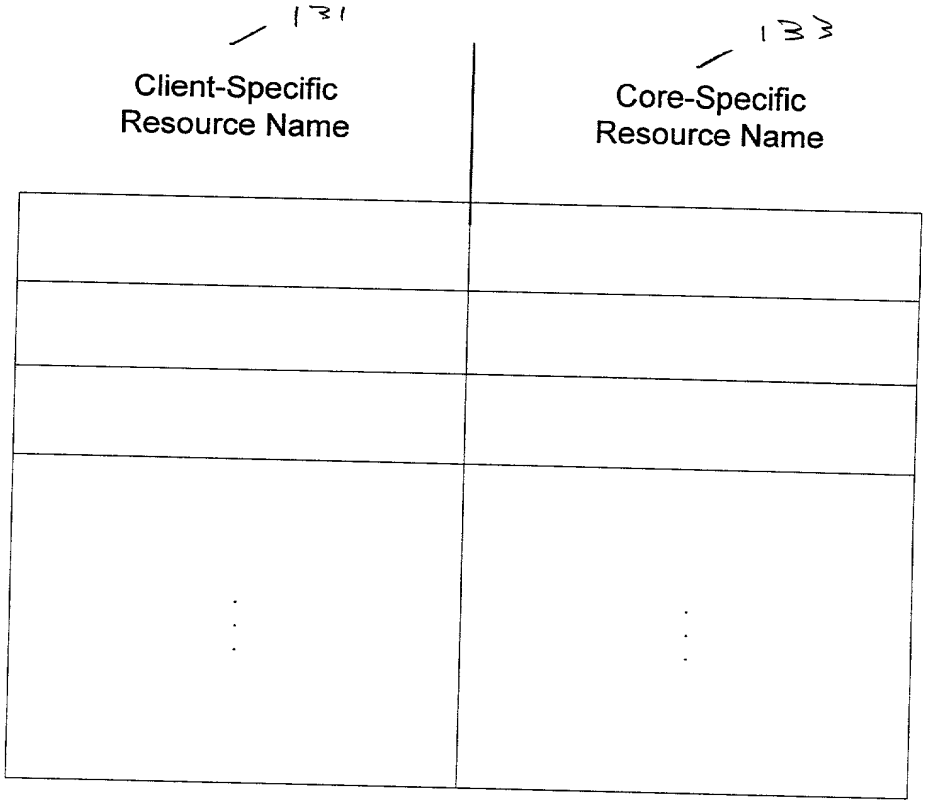

131
Client-Specific Resource Name
133
Core-Specific Resource Name

FIG. 7

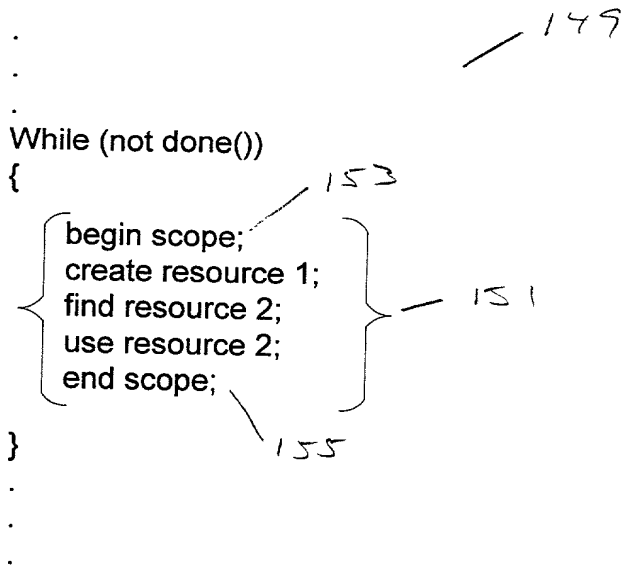

149
While (not done())
{
153
begin scope;
create resource 1;
find resource 2;
use resource 2;
end scope;
151
155
}

FIG. 8

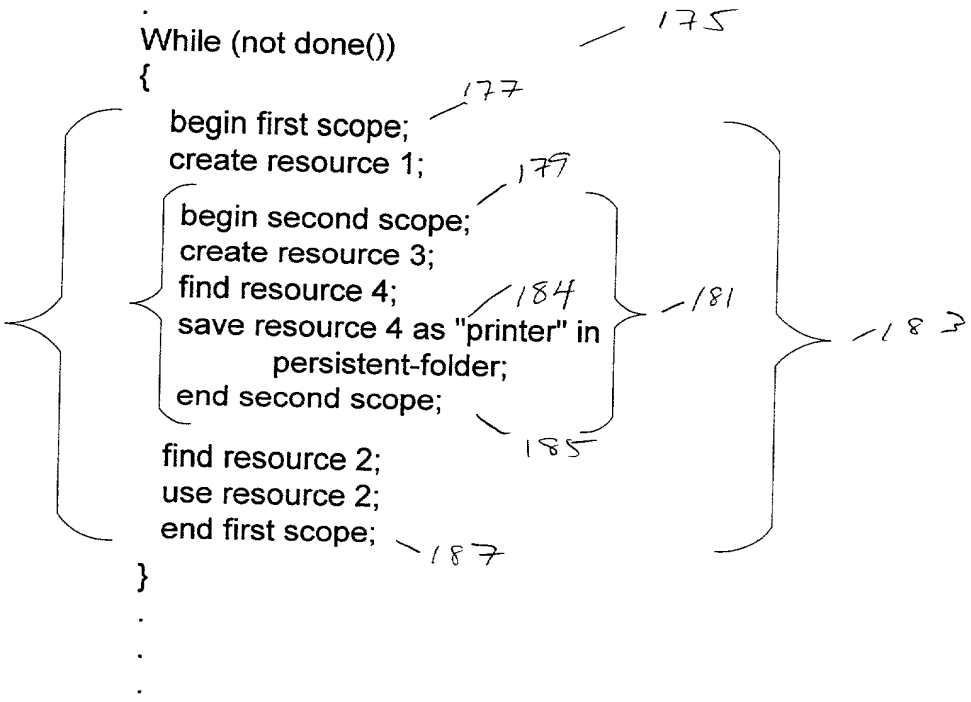

175
While (not done())
{
177
begin first scope;
create resource 1;
179
begin second scope;
create resource 3;
find resource 4;
184
save resource 4 as "printer" in
persistent-folder;
end second scope;
181
183
185
find resource 2;
use resource 2;
end first scope;
187
}

FIG. 9A

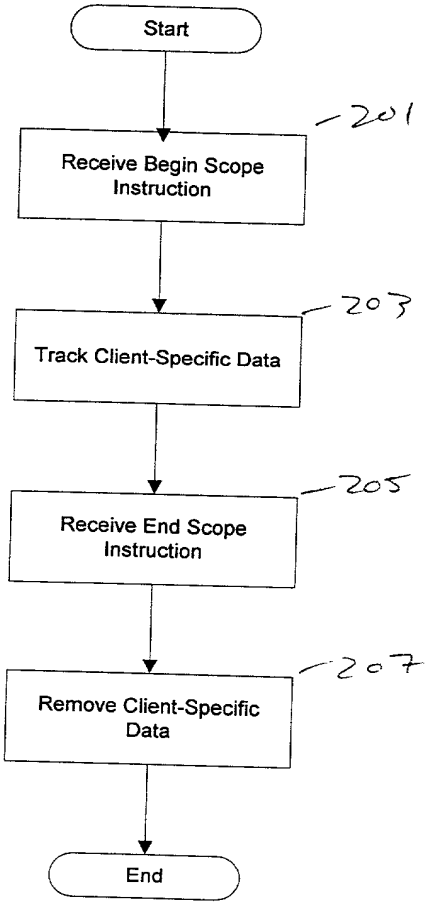

Start
201
Receive Begin Scope Instruction
203
Track Client-Specific Data
205
Receive End Scope Instruction
207
Remove Client-Specific Data
End

FIG. 9B

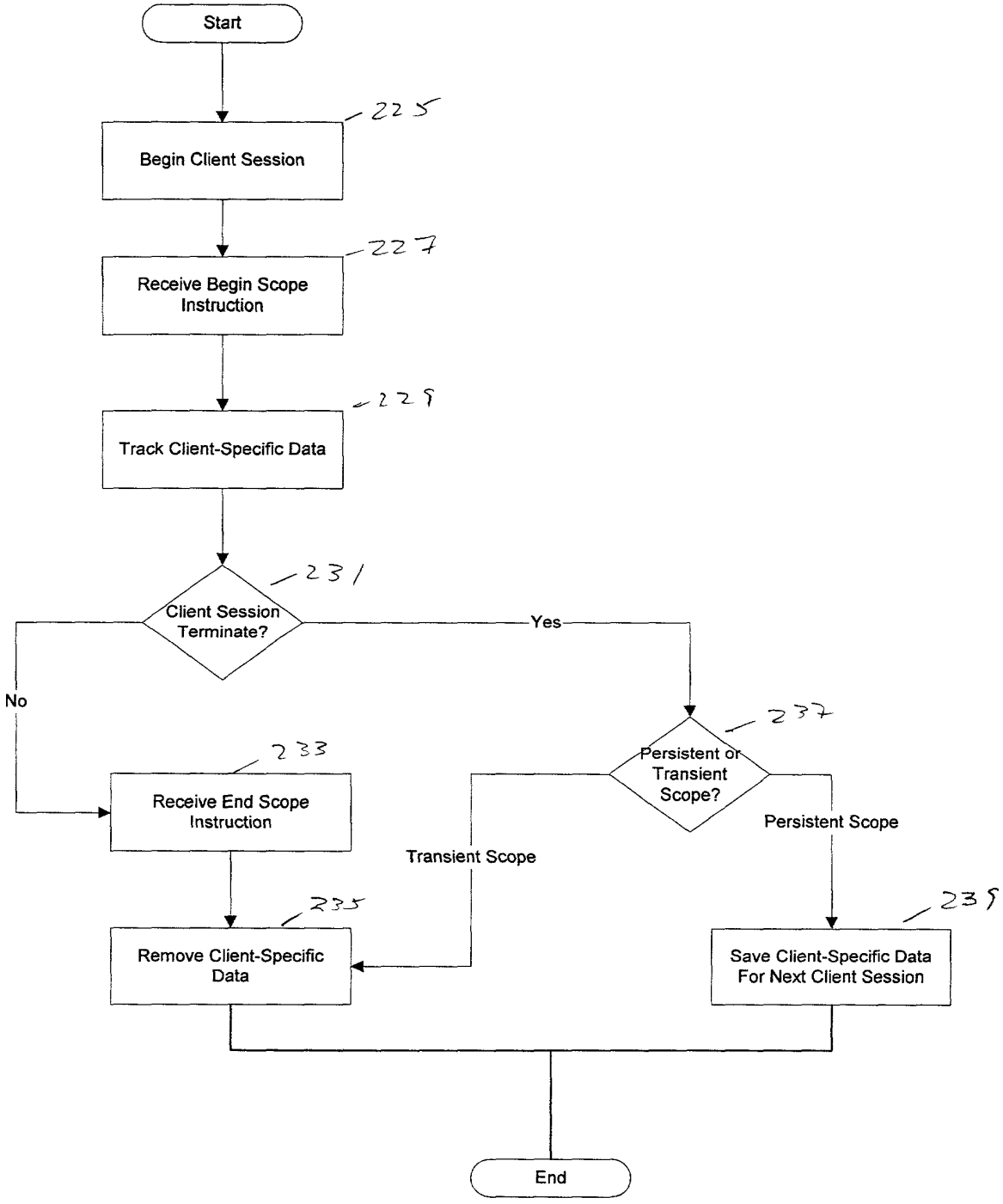

Start
225
Begin Client Session
227
Receive Begin Scope Instruction
229
Track Client-Specific Data
231
Client Session Terminate?
Yes
No
237
Persistent or Transient Scope?
233
Receive End Scope Instruction
Persistent Scope
Transient Scope
235
Remove Client-Specific Data
239
Save Client-Specific Data For Next Client Session
End

FIG. 9C

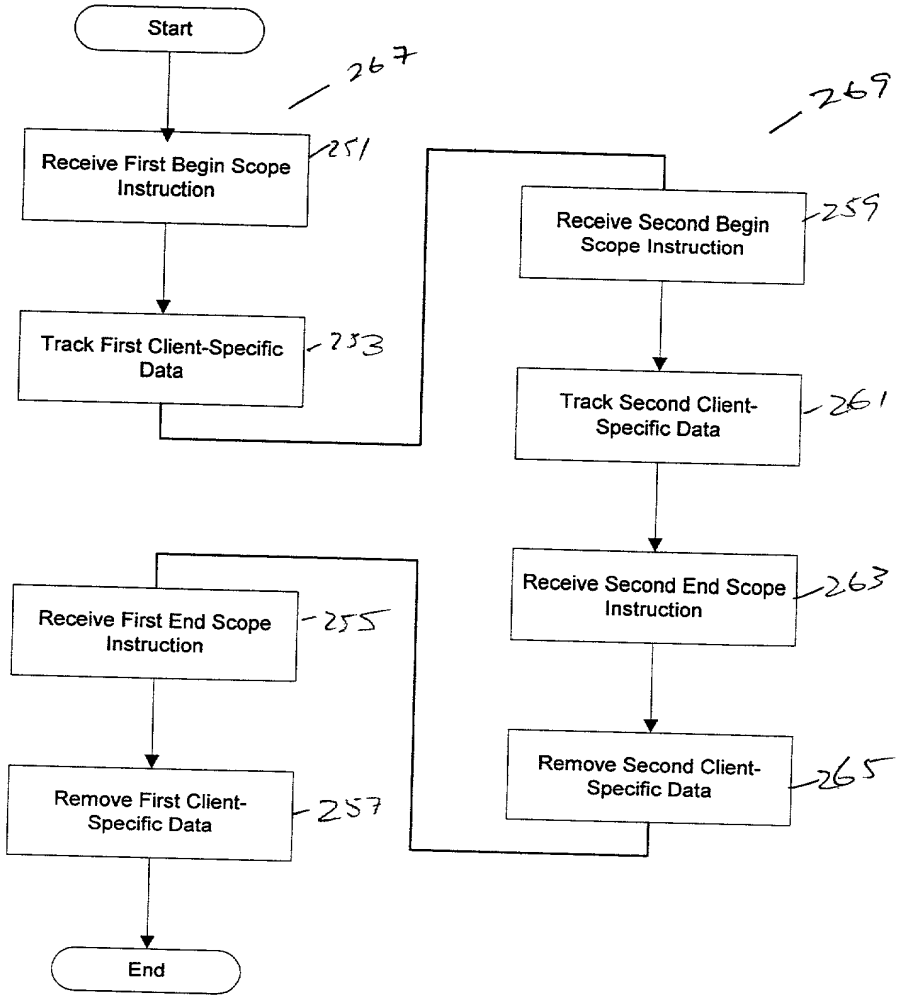
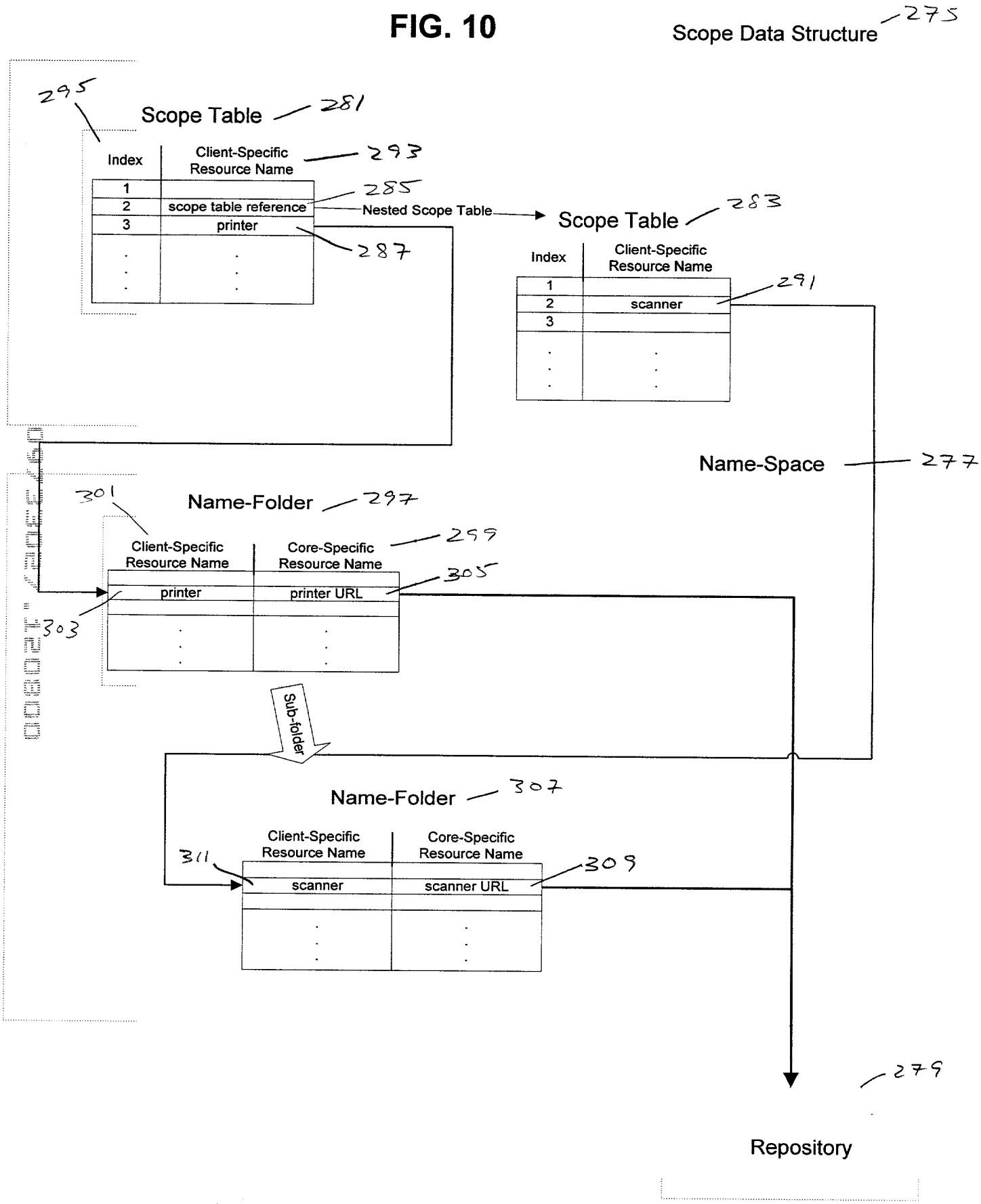

Start
267
Receive First Begin Scope Instruction
251
Track First Client-Specific Data
253
269
Receive Second Begin Scope Instruction
259
Track Second Client-Specific Data
261
Receive Second End Scope Instruction
263
Remove Second Client-Specific Data
265
Receive First End Scope Instruction
255
Remove First Client-Specific Data
257
End

FIG. 10


Scope Data Structure
275
295
Scope Table
281
Index
Client-Specific Resource Name
293
1
2
scope table reference
285
Nested Scope Table
3
printer
287
Scope Table
283
Index
Client-Specific Resource Name
1
2
scanner
291
3
Name-Space
277
301
Name-Folder
297
Client-Specific Resource Name
Core-Specific Resource Name
299
printer
printer URL
305
303
Sub-folder
Name-Folder
307
Client-Specific Resource Name
Core-Specific Resource Name
311
scanner
scanner URL
309
279
Repository